

# METHOD OF FORMING A CONDUCTIVE THERMOPLASTIC COMPOSITION

## Abstract of Disclosure

A conductive thermoplastic composition is prepared by a method in which poly(arylene ether) and, optionally, a portion of polyamide are added to a first feed port, polyamide is added to a second feed port, and a concentrate of conductive carbon black in polyamide is added to the second feed port or a third feed port. Whereas preparation of conductive poly(arylene ether)/polyamide compositions has typically required an extruder having a screw length to diameter ratio of at least 40, the present method allows the use of extruders having a screw length to diameter ratio less than 38 and as low as 20 or lower. The conductive thermoplastic composition prepared by the method exhibits high conductivity and high impact strength, and it is useful for molding articles such as electrostatically-paintable automotive exterior panels.

Figures

Figure 1: A line graph showing the relationship between the number of hours spent studying and the score on a test. The x-axis represents 'Hours Studied' (0 to 10) and the y-axis represents 'Test Score' (0 to 100). The data points are as follows:

Hours Studied	Test Score
0	50
1	55
2	60
3	65
4	70
5	75
6	80
7	85
8	90
9	95
10	100